

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P297090

Luminaire Tested: **D3X-WG-55L82765-LD5-UNV-24-T1-W2A-5500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P297090  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1806-819-9)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: D3X-WG-55L82765-LD5-UNV-24-T1-W2A-5500K  
Description: D3X LED 2x4 TUNABLE WHITE TROFFER  
WITH RECTANGULAR PERF LENS  
Light Source: (504) 80 CRI LEDS TUNED TO 5500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5426.0 lumens  
Efficiency: N/A  
Efficacy: 137.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.37  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

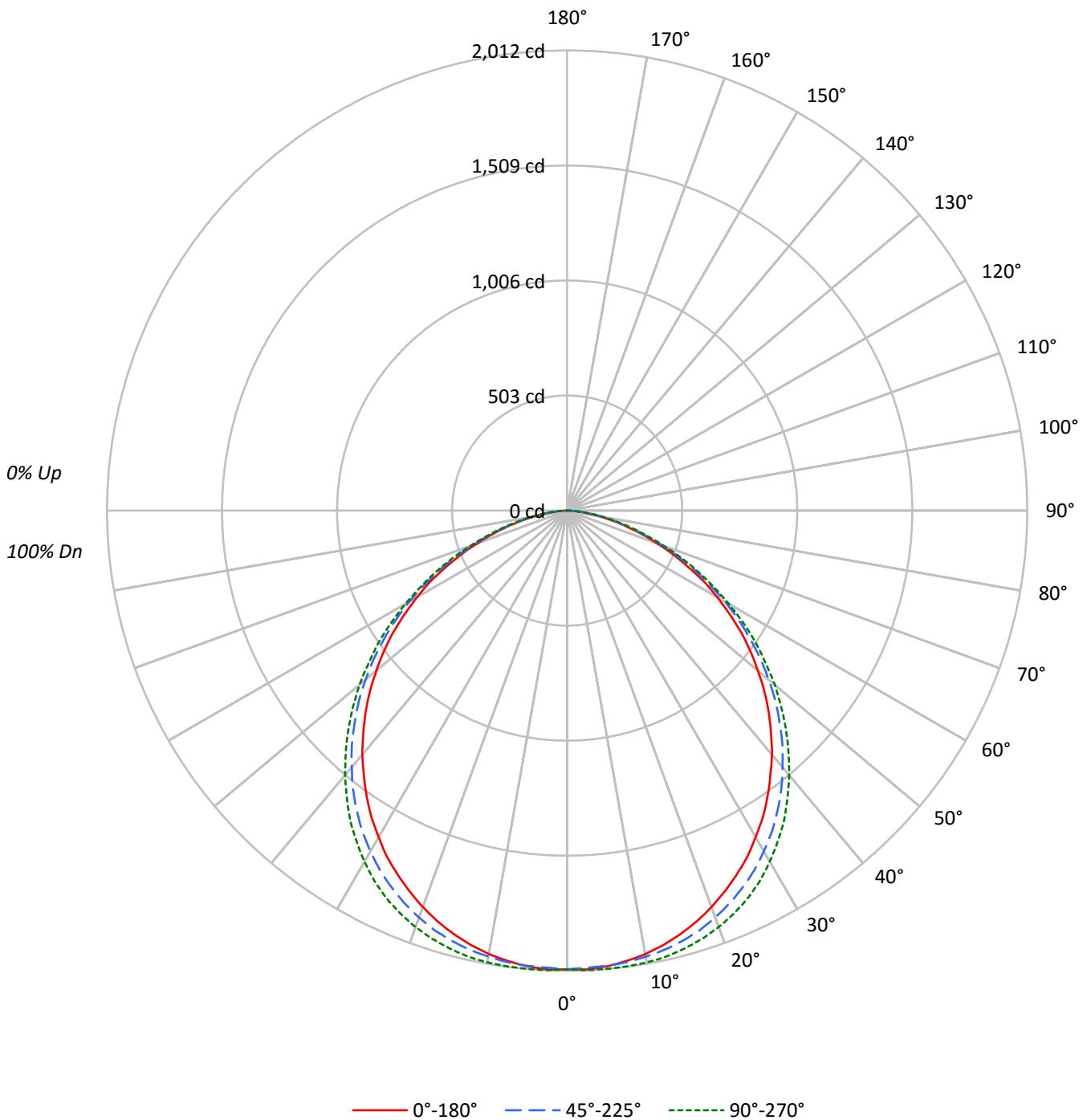
Input Watts (W): 39.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	74	71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	43	55	48	42	54	47	42	52	46	42	40
7	66	53	44	38	64	52	44	38	50	43	38	49	42	37	47	42	37	35
8	61	48	40	34	60	47	39	34	46	39	34	45	38	33	44	38	33	31
9	57	44	36	31	56	44	36	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	31	27	26

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2699	2699	2699
5°	2701	2699	2717
10°	2690	2706	2741
15°	2670	2713	2762
20°	2641	2711	2775
25°	2606	2698	2776
30°	2561	2673	2754
35°	2509	2634	2717
40°	2448	2574	2653
45°	2371	2500	2574
50°	2278	2409	2482
55°	2179	2289	2362
60°	2040	2144	2197
65°	1862	1961	2011
70°	1636	1720	1766
75°	1384	1455	1506
80°	1099	1205	1235
85°	750	900	871



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	190.6	3.5
10°-20°	550.2	10.1
20°-30°	836.2	15.4
30°-40°	997.8	18.4
40°-50°	1007.8	18.6
50°-60°	868.2	16.0
60°-70°	605.3	11.2
70°-80°	299.9	5.5
80°-90°	69.9	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1577.0	29.1
0°-40°	2574.9	47.5
0°-60°	4450.8	82.0
0°-90°	5426.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5426.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2006	2006	2006	2006	2006	
5°	2000	1998	1998	2008	2012	190
15°	1916	1926	1948	1973	1983	540
25°	1755	1778	1817	1854	1870	809
35°	1528	1553	1604	1640	1654	955
45°	1246	1273	1314	1345	1353	960
55°	929	948	976	999	1007	828
65°	585	597	616	622	632	581
75°	266	270	280	286	290	287
85°	49	58	58	54	56	62
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2005.9	2005.9	2005.9	2005.9	2005.9
2.5°	2007.8	2003.9	2000.0	2007.8	2011.7
5°	2000.0	1998.1	1998.1	2007.8	2011.7
7.5°	1986.4	1986.4	1992.3	2005.9	2009.8
10°	1968.9	1972.8	1980.6	2000.0	2005.9
12.5°	1945.6	1953.4	1967.0	1990.3	1998.1
15°	1916.5	1926.2	1947.6	1972.8	1982.6
17.5°	1883.4	1897.0	1924.2	1953.4	1963.1
20°	1844.6	1862.0	1893.1	1926.2	1937.8
22.5°	1801.8	1823.2	1858.2	1893.1	1906.7
25°	1755.1	1778.5	1817.3	1854.3	1869.8
27.5°	1706.6	1729.9	1772.6	1809.6	1825.1
30°	1648.2	1675.5	1720.2	1759.0	1772.6
32.5°	1591.9	1619.1	1665.7	1700.7	1714.3
35°	1527.7	1553.0	1603.5	1640.5	1654.1
37.5°	1459.7	1488.9	1537.5	1570.5	1582.2
40°	1393.6	1418.9	1465.5	1498.6	1510.2
42.5°	1319.8	1347.0	1393.6	1422.8	1432.5
45°	1245.9	1273.1	1313.9	1345.0	1352.8
47.5°	1170.1	1195.4	1236.2	1261.4	1269.2
50°	1088.5	1111.8	1150.7	1175.9	1185.6
52.5°	1010.7	1032.1	1065.1	1086.5	1092.3
55°	929.1	948.5	975.7	999.1	1006.8
57.5°	841.6	863.0	888.3	907.7	913.5
60°	758.0	775.5	796.9	814.4	816.3
62.5°	676.4	684.2	703.6	719.2	721.1
65°	585.0	596.7	616.1	622.0	631.7
67.5°	501.5	509.2	524.8	532.6	540.3
70°	415.9	421.8	437.3	447.0	449.0
72.5°	342.1	344.0	355.7	363.5	365.4
75°	266.3	270.2	279.9	285.7	289.6
77.5°	202.1	206.0	213.8	217.7	217.7
80°	141.9	147.7	155.5	157.4	159.4
82.5°	91.4	99.1	105.0	106.9	103.0
85°	48.6	58.3	58.3	54.4	56.4
87.5°	17.5	21.4	23.3	25.3	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)